

## Claims

1. A pipe made of several different materials by continuous extrusion, characterized in that the innermost layer is a plastic layer (15), outside of which there is an inner electrode layer (32c), outside of which there is an insulating layer (32b), outside of which there is an outer electrode layer (32a).
2. A pipe according to claim 1 for conducting gas indoors, characterized in that the electrode layers (32a, 32c) are connected electrically in such a way that the perforation of the electrode layers (32a, 32c) brings about an alarm.
3. A pipe according to claim 1, characterized in that the electrode layers (32a, 32c) are connected electrically in such a way that a strain resulting from the loading of the pipe produces a warning signal.
4. A pipe according to claim 1, characterized in the pipe is used as a ventilation or a soil and waste pipe and that the electrode layers (32a, 32c) are connected electrically in such a way that the outer surface of the pipe reproduces a sound which is opposite to the signal measured from the inside of the pipe so that the counter-wave produced in the outer electrode layer (32a) muffles the noise occurring inside the pipe.